

Description

Job Title **Fire Protection Engineer 3/4**
Location **48-0235-1001K-OFF**
Organization Name **ES-FP/Fire Protection Division Office**
Minimum Salary
Maximum Salary

What You Will Do

This position will be filled at either the Fire Protection Engineer 3 or 4 level, depending on the skills of the selected candidate. Additional job responsibilities (outlined below) will be assigned if the candidate is hired at the higher level.

Fire Protection Engineer 3 (\$89,900 – 148,300)

The successful candidate will be expected to perform the following duties of this position, but duties are not necessarily limited to: Providing fire protection and life safety subject matter expert (SME) technical support to the laboratory facility management and programmatic organizations; preparing and maintaining fire hazard analyses and related documentation for complex laboratory, radiological, and nuclear facilities; construction project support, plan review and approval; Lab-wide fire alarm system operations and maintenance; wildland fire risk reduction initiatives; performing facility fire protection and life safety system assessments; fire protection and life safety system commissioning, periodic testing and maintenance oversight; preparation of equivalencies and exemptions, development of equivalencies and exemptions to DOE Directives, building and NFPA codes; and technical reviews of proposed new activities for fire protection program adherence.

Fire Protection Engineer 4 (\$119, 700 – \$201,700)

In addition to the duties outlined above, the primary duties of this position include: Establishing, sustaining and monitoring fire protection engineering and loss prevention programs (Lab-wide and within facilities); facility and program fire protection assessment/surveillance program implementation; mentoring and technical leadership of staff; interface with nuclear facility safety basis professionals; and maintaining Laboratory fire protection engineering and maintenance standards. This position requires working with all levels of Laboratory management and representing the Division and Laboratory to internal customers, external agencies and community organizations. As a senior level position, the candidate will review, recommend actions and provide leadership on fire protection and loss prevention related issues for the Laboratory.

What You Need

Minimum Job Requirements:

Experience with:

- The application of fire protection engineering concepts, building construction, NFPA) codes and standards (especially NFPA 1, 13, 14, 17, 20, 25, 30, 45, 72, 96A, 101, 801 and 2001), International Building and Fire Codes (IBC/IFC), and ES&H requirements associated with fire protection program implementation.
- The application of FM Global and/or other industrial property loss prevention data sheets, and NRTL listings/approvals used in the commercial built environment.
- Performing fire protection and life safety plan reviews of new construction and facility modifications, negotiating with project leaders, programmatic/user organizations and design agencies to achieve successful resolution of outstanding fire protection and life safety issues, performing construction inspection and approval, and observing and documenting facility and fire protection and life safety system/feature commissioning.
- Understanding and validating regulatory compliance for facility plans (blueprints), drawings and related design documentation (e.g., hydraulic calculations, fire alarm system battery calculations, clean agent design calculations, through-penetration firestop system engineering judgements, etc.).
- Performing life safety (e.g., means of egress capacity, occupant loading, etc.) and fire protection system design calculations (water supply/fire flow calculations, water-based system hydraulic calculations, fire pump performance curves, fire alarm system voltage drop calculations, etc.).
- Performing fire protection and life safety assessments and evaluations of proposed new and existing facilities.
- Preparation and maintenance of fire hazards analyses for complex industrial, radiological and nuclear facilities. Similar experience preparing commercial insurance carrier inspection reports is relevant.
- Performing computer fire modeling using industry standard fire modeling software packages, including an understanding of appropriate uses and limitations of these techniques.
- Ability to work within any 24 hour period, including rotations on-call and as part of the Laboratory's emergency

management organization.

- Excellent communication skills (verbal - written).
- Knowledge of office software, including MS Word, Excel, Access, Outlook.

Additional Job Requirements for Fire Protection Engineer 4:

In addition to the Job Requirements outlined above, qualification at the Fire Protection Engineer 4 level requires experience with:

- Demonstrated leadership aptitude including clear focus on customer service, as well as, regulatory compliance.
- Providing technical direction and mentoring to fire protection professional staff members for the purposes of completing organizational-defined responsibilities and tasks, staff skill set development, and assisting with setting priorities on and improving the quality of technical deliverables.
- Representing a fire protection/life safety organization on cross-discipline safety and operations teams for the purposes of improving facility operations and safety, including participation on authorization basis document development teams, multi-discipline facility assessment teams, and in support of facility/operational readiness reviews.
- Critically evaluating fire protection needs and concerns in varied areas of research and development environments to solve complex problems through compromise when necessary and appropriate.
- Professional Engineer registration in Fire Protection or complementary discipline.

Desired Skills:

- Professional Engineering (PE) registration. PE licensure in Fire Protection Engineering with 8-15 years of Fire Protection Engineering experience.
- Experience with fire protection and life safety aspects applicable to chemical processes, wet chemistry and laser laboratories, radiological laboratories, high-hazard and nuclear facilities.
- Development and maintenance of equivalencies and exemptions to DOE Directives, NFPA and building codes and standards, and technical standards.
- Experience with fire department operations, including the preparation and management of fire department baseline needs assessment (BNA) documents and recommendations, staffing requirements (e.g., NFPA 1710), apparatus life-cycle planning and routine interface and coordination between Federal and municipal regulatory agencies.

Education: BS in Fire Protection Engineering, or related Engineering degree and experience and certifications.

Notes to Applicants: Please submit a detailed cover letter along with the resume addressing the requirements of the job.

Work Environment: Outdoors, in confined space, working off-shift/rotating schedule, operation of motor vehicles, work in a noisy environment, work under unusual lighting conditions, work near sources of ionizing radiation, work near sources of non-ionizing radiation, headgear or head protection, safety glasses or eye protection, hearing protection, gloves or hand protection, safety shoes or protective footwear.

Where You Will Work

Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

The Fire Protection Division (FP-DO) is the Laboratory's central fire protection engineering and program support entity, responsible for providing institutional technical direction and support for the Lab's nuclear and nonnuclear facilities and programs. Fire Protection serves as LANL's authority having jurisdiction (AHJ) for fire protection-related codes, standards, and recommended practices.

Additional Details:

Clearance: Q (Position will be cleared to this level). Applicants selected will be subject to a Federal background investigation and must meet eligibility requirements* for access to classified matter.

*Eligibility requirements: To obtain a clearance, an individual must be at least 18 years of age; U.S. citizenship is required except in very limited circumstances. See [DOE Order 472.2](#) for additional information.

426.2: This position is subject to DOE Order 426.2, Personnel Selection, Training, and Qualification Requirements for DOE Nuclear Facilities, which establishes entry-level requirements to ensure candidates selected for specific positions can successfully perform the requirements of the job.

New-Employment Drug Test: The Laboratory requires successful applicants to complete a new-employment drug test and maintains a substance abuse policy that includes random drug testing.

Regular position: Term status Laboratory employees applying for regular-status positions are converted to regular status.

Internal Applicants: Please refer to Laboratory policy [P701](#) for applicant eligibility.

Equal Opportunity: Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry,

religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to applyhelp@lanl.gov or call 1-505-665-4444 option 1.

Appointment Type **Regular**
Regular
Posting Scope **External**
External

Contact Details

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